Applicant: Terry et al. Application No.: 10/768,312

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (currently amended): A wireless digital communication system for prioritizing the forwarding of blocks of downlink data, the system including a base station and a plurality of user equipment mobile terminals (UEs), wherein a first subset of the UEs have pending downlink transmissions and a second subset of the UEs do not have pending downlink transmissions, the system comprising:
- (a) means for the base station to receive blocks of downlink data for distribution to designated ones of the plurality of UEs in the first subset;
- (b) means for the base station to transmit to each of the designated UEs in the first subset a request for a to begin downlink channel quality measurements measurement to be performed, whereby the base station does not transmit a request to begin downlink channel quality measurements to the UEs in the second subset due to not having pending downlink transmissions;
- (c) means for each of the designated UEs <u>in the first subset</u> to perform the downlink channel quality <u>measurements</u> measurement;
- (d) means for each of the designated UEs <u>in the first subset</u> to transmit the results of the downlink channel quality <u>measurements</u> measurement to the base station;
- (e) means for the base station to establish a priority for the designated UEs in the first subset based on the results of the downlink channel quality measurements;

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(f) means for the base station to transmit an allocation signal to each of the designated UEs in the first subset;

- (g) means for each of the designated UEs <u>in the first subset</u> to set up transmission parameters in response to the allocation signal; and
- (h) means for the base station to transmit the downlink data to the designated UEs in the first subset in accordance with the established priority.
- 2. (currently amended): The system of claim 1 wherein the allocation signal indicates a particular coding rate, modulation type and at least one allocated <u>time</u> slot.

## Claim 3 (canceled)

- 4. (currently amended): In a wireless digital communication system including a base station and plurality of user equipment mobile terminals (UEs), wherein a first subset of the UEs have pending downlink transmissions and a second subset of the UEs do not have pending downlink transmissions, a method for prioritizing the forwarding of blocks of downlink data, the method comprising:
- (a) the base station receiving blocks of downlink data for distribution to designated ones of the plurality of UEs in the first subset;
- (b) the base station transmitting to each of the designated UEs in the first subset a request for a to begin downlink channel quality measurements measurement to be performed, whereby the base station does not transmit a request to begin downlink channel quality measurements to the UEs in the second subset due to not having pending downlink transmissions;
- (c) each of the designated UEs <u>in the first subset</u> performing the downlink channel quality <u>measurements</u> <del>measurement</del>;

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(d) each of the designated UEs <u>in the first subset</u> transmitting the results of the downlink channel quality <u>measurements</u> <del>measurement</del> to the base station;

- (e) the base station establishing a priority for the designated UEs in the first subset based on the results of the downlink channel quality measurements;
- (f) the base station transmitting an allocation signal to each of the designated UEs in the first subset;
- (g) each of the designated UEs <u>in the first subset</u> setting up transmission parameters in response to the allocation signal; and
- (h) the base station transmitting the downlink data to the designated UEs in the first subset in accordance with the established priority.
- 5. (currently amended): The method of claim 4 wherein the allocation signal indicates a particular coding rate, modulation type and at least one allocated <u>time</u> slot.

## Claims 6-12 (canceled)

- 13. (new): The system of claim 1 further comprising means for the base station to transmit a downlink physical channel allocation signal to the UE associated with the highest downlink channel quality measurement.
- 14. (new): The method of claim 4 further comprising the base station transmitting a downlink physical channel allocation signal to the UE associated with the highest downlink channel quality measurement.